



PRODUCT
RANGE
1/2013

The New Class of Light

OSRAM LED lamps – extremely efficient, durable and versatile

OSRAM LED Lamps – For best light, now and in the future



LED lamps by OSRAM are not just modern or stylish. Because of their outstanding quality, they also offer many technical and sustainable advantages: A very long lifespan, high quality of light and excellent economy.

Thanks to the broad range of OSRAM products, LED lamps are the ideal solution in many different areas – for new installations or as a replacement for classic incandescent or halogen lamps. Whether for private or commercial use, for example in restaurants, in amusement parks, or for shop or museum lighting: LED lamps by OSRAM are the perfect alternative to general illumination as well as effect and mood lighting.

When it comes to total energy balance, LED lamps are at the same high level as compact fluorescent lamps and are clearly superior to conventional incandescent lamps. A representative study¹ conducted by OSRAM together with experts from Siemens Corporate Technology shows: Only 2 % of the energy is used for the production of an LED lamp; the remaining primary energy is consumed during the operation of the lamp. Thanks to its energy efficiency, which will continue to increase, LED lamps by OSRAM are already the best choice – and will be even more so in the future.

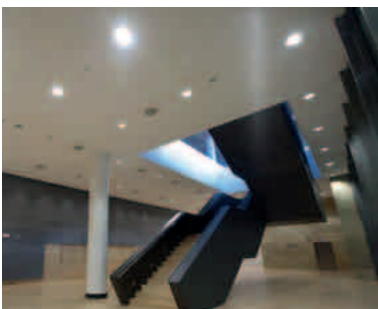
LED – at OSRAM, the lighting specialist, these three letters stand for the lighting solutions of today with outstanding efficiency. You can find out everything about the latest LED technology, current LED trends, and innovative LED lamps made by OSRAM at www.osram.com/led

¹ Detailed study at www.osram-os.com/life-cycle-assessment

For any application the perfect OSRAM LED lamp

The OSRAM LED lamp product range offers a huge variety of wattages, light colors, shapes, and base variants – and thus offers the perfect lighting solution for every application. It is also very clearly laid out thanks to a clear segmentation into three classes of lamps.

OSRAM PARATHOM® PRO



- High-tech LED lamps for versatile professional use
- Outstanding efficiency up to 65 lumens per Watt
- Lifespan up to 45,000 hours
- Maximum color temperature deviation from lamp to lamp of just 100 Kelvin (SDCM < 5)
- Good to very good color rendering of R_a 80 to 90

OSRAM PARATHOM®



- First-rate LED lamps for versatile standard use
- Lifespan up to 35,000 hours
- Maximum color temperature deviation from lamp to lamp of just 140 Kelvin (SDCM < 7)
- Good color rendering of $R_a \sim 80$

OSRAM PARATHOM® SPECIAL



- Economical special LED lamps for professional use



OSRAM is setting new standards world-wide with LED lamps

Gearing the products to their application is only one of the most important principles for the OSRAM lighting specialist in development, manufacture, and during the constant optimization of the products. The goal is to deliver the best lighting solution in each case for every application. Following this goal, OSRAM is investing in particular in two areas: On the one hand in research and development, and on the other hand in permanent quality assurance.

LED lamps by OSRAM - they know their business

By opting for OSRAM LED lamps, your customers are purchasing products that:

- Meet the special requirements in the particular field of application 100 % of the time
- Are at the cutting edge of technology
- Meet even the highest quality standards

The combination of innovative strength and application orientation that is typical for OSRAM produces a distinct added value – and at an outstanding price/performance ratio!



✓ Outstanding quality

- Up to 1,000,000 switching cycles
- White light with good to very good color rendering
- Warm-white light color similar to incandescent lamps
- Very good impact and vibration resistance
- Available in many different typical shapes and with conventional lamp bases for easy replacement

✓ Distinctive sustainability

- Up to 90 % less CO₂ emission compared to similar conventional incandescent and halogen lamps
- Outstanding ecological balance thanks to the low amount of energy consumed during manufacture
- Low energy consumption during operation
- Mercury-free
- Less waste and lower consumption of resources thanks to an extremely long lifespan

✓ High efficiency

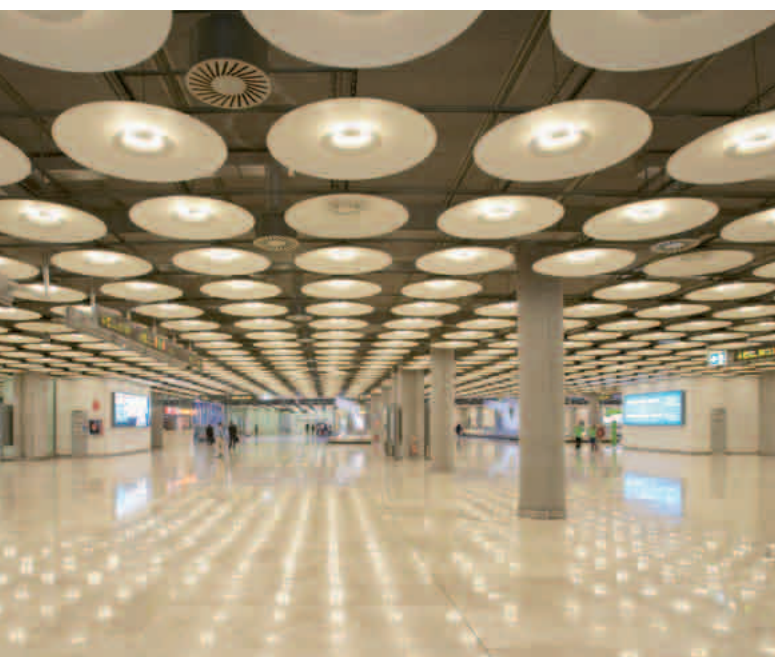
- Up to 90 % in energy savings compared to a similar conventional incandescent or halogen lamp
- Lifespan up 45,000 hours
- No luminaire or system exchange required thanks to ease of replacement
- Reduction in air-conditioning costs thanks to extremely low generation of heat

✓ Rapid return on investments

LED lamps incorporate everything that is technologically feasible today. That is why they are more expensive than conventional illuminants. But using LED technology already becomes profitable after a short period of time; this is true not only for private but particularly for commercial end consumers – thanks to the impressively low power consumption and the extremely long lifespan. The economy of the OSRAM LED lamps is a strong sales argument – find out for yourself: Alongside the most important product features, technical data, and ordering information, you can also find an example of an amortization calculation for the various PARATHOM® lamp types.

✓ Unrivalled guarantee

Engineering know-how, the use of only the highest-quality components, consistent quality assurance, and the extensive knowledge of our own production of LED lamps are paying off. This is why OSRAM provides a five year guarantee for PARATHOM® PRO LED lamps and four years for selected PARATHOM® LED lamps that are operated in accordance with OSRAM specifications. You can find the detailed guarantee terms at www.osram.com/guarantee



High-tech LED lamps for professional requirements: OSRAM PARATHOM® PRO

By offering impressive light and performance values, as well as an enormously wide range of products with many screw and pin base variants, OSRAM PARATHOM® PRO LED lamps meet even the most exacting of demands in almost every professional application. The majority of the range can also be dimmed¹.

OSRAM PARATHOM® PRO
PAR16 35 Advanced



+ Efficient dimmable¹
alternatives to high-
voltage halogen lamps
PAR16 with 35 W

OSRAM PARATHOM® PRO
PAR16 50/75 Advanced



+ Efficient dimmable¹
alternatives to high-
voltage halogen lamps
PAR16 with 50 and 75 W

OSRAM PARATHOM® PRO
PAR30 75



+ Efficient alternative to
high-voltage halogen
lamps PAR30 with 75 W

OSRAM PARATHOM® PRO
PAR38 120



+ Efficient alternative to
high-voltage halogen
lamps PAR38 with 120 W



OSRAM PARATHOM® PRO
MR16 20 Advanced



+ Efficient dimmable¹
alternative to low-
voltage halogen lamps
MR16 with 20 W

OSRAM PARATHOM® PRO
MR16 35/50 Advanced



+ Efficient dimmable¹
alternative to low-
voltage halogen lamps
MR16 with 35 and 50 W

OSRAM PARATHOM® PRO
MR16 60 Advanced



+ Efficient dimmable¹
alternative to low-
voltage halogen lamps
MR16 with 60 W

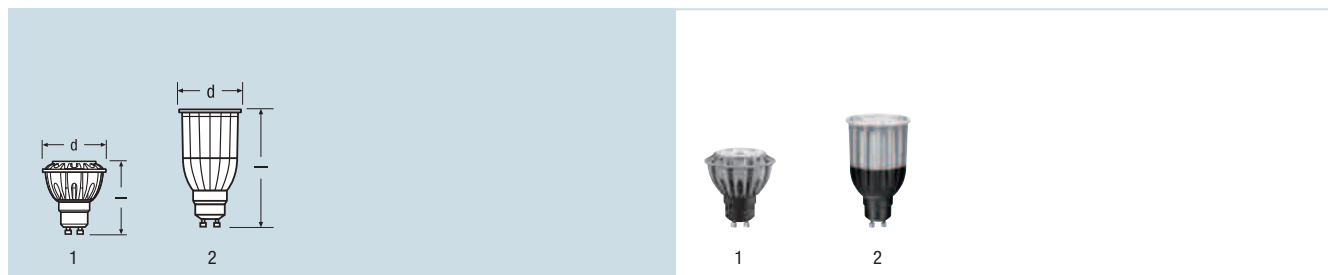
OSRAM PARATHOM® PRO
LEDspot 111 50 Advanced













+ Efficient dimmable¹
alternative to low-
voltage halogen lamps
AR111 with 50 W

¹ LED lamps can be operated using a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim, and the associated additional technical product information sheets.

OSRAM PARATHOM® PRO PAR16 Advanced



| Product designation |  | Product-number (EAN) |  ¹ |  ¹ |  ¹ |  |  |  ² |  |  |  |
|---|---|----------------------|--|--|--|---|---|--|---|---|---|
| OSRAM PARATHOM® PRO PAR16 | | | | | | | | | | | |
| GU10 – 220–240 V – 25° – Folding carton box | | | | | | | | | | | |
| PRO PAR16 35 25° Advanced | 1 | 4008321973375 | 5.2 | 190 | 800 | 2700 | 90 | ✓ | 58 | 50 | 10 |
| PRO PAR16 35 25° Advanced | 1 | 4008321973399 | 5.2 | 220 | 850 | 3000 | 90 | ✓ | 58 | 50 | 10 |
| PRO PAR16 35 25° Advanced | 1 | 4008321973412 | 5.2 | 310 | 1100 | 4000 | 80 | ✓ | 58 | 50 | 10 |
| PRO PAR16 50 25° Advanced | 2 | 4008321973436 | 9 | 315 | 1200 | 2700 | 90 | ✓ | 85 | 50 | 10 |
| PRO PAR16 50 25° Advanced | 2 | 4008321973450 | 9 | 350 | 1300 | 3000 | 90 | ✓ | 85 | 50 | 10 |
| PRO PAR16 50 25° Advanced | 2 | 4008321973474 | 9 | 470 | 1800 | 4000 | 80 | ✓ | 85 | 50 | 10 |
| PRO PAR16 75 25° Advanced | 2 | 4008321972873 | 10.5 | 450 | 1700 | 2700 | 80 | ✓ | 86 | 50 | 10 |
| PRO PAR16 75 25° Advanced | 2 | 4008321972897 | 10.5 | 500 | 1900 | 3000 | 80 | ✓ | 86 | 50 | 10 |
| PRO PAR16 75 25° Advanced | 2 | 4008321972910 | 10.5 | 620 | 2500 | 6500 | 70 | ✓ | 86 | 50 | 10 |
| GU10 – 220–240 V – 35° – Folding carton box | | | | | | | | | | | |
| PRO PAR16 35 35° Advanced | 1 | 4008321972255 | 5.2 | 190 | 500 | 2700 | 90 | ✓ | 58 | 50 | 10 |
| PRO PAR16 35 35° Advanced | 1 | 4008321972279 | 5.2 | 220 | 600 | 3000 | 90 | ✓ | 58 | 50 | 10 |
| PRO PAR16 35 35° Advanced | 1 | 4008321972293 | 5.2 | 310 | 800 | 4000 | 80 | ✓ | 58 | 50 | 10 |
| PRO PAR16 50 35° Advanced | 2 | 4008321972736 | 9 | 315 | 800 | 2700 | 90 | ✓ | 85 | 50 | 10 |
| PRO PAR16 50 35° Advanced | 2 | 4008321973771 | 9 | 350 | 950 | 3000 | 90 | ✓ | 85 | 50 | 10 |
| PRO PAR16 50 35° Advanced | 2 | 4008321973795 | 9 | 470 | 1040 | 4000 | 80 | ✓ | 85 | 50 | 10 |
| PRO PAR16 75 35° Advanced | 2 | 4008321972330 | 10.5 | 450 | 1100 | 2700 | 80 | ✓ | 86 | 50 | 10 |
| PRO PAR16 75 35° Advanced | 2 | 4008321972354 | 10.5 | 500 | 1200 | 3000 | 80 | ✓ | 86 | 50 | 10 |
| PRO PAR16 75 35° Advanced | 2 | 4008321972378 | 10.5 | 620 | 1500 | 6500 | 70 | ✓ | 86 | 50 | 10 |

High-voltage LED reflector lamps PRO PAR16 with retrofit pin base GU10

- Average lifespan up to 40,000 h
- Can withstand very frequent on/off switching (up to 1,000,000 switching cycles)
- High color rendering value
- High luminous efficacy
- Very precise color location
- Dimmable²
- Also available with new, even warmer light color (2,700 K)
- Replacement options:
 - 35 W halogen lamp – PRO PAR16 35 Advanced
 - 50 W halogen lamp – PRO PAR16 50 Advanced
 - 75 W halogen lamp – PRO PAR16 75 Advanced

Impressive figures:

After only 7.5 months, the replacement of a conventional halogen lamp with a PARATHOM® PRO PAR16 75 Advanced pays off.

| Lamp type | HALOPAR® 16 | PARATHOM® PRO PAR16 75 Advanced |
|-------------------------------------|---------------|---------------------------------|
| Number of lighting outlets | 1 each | 1 each |
| Lamp wattage | 75 W | 10.5 W |
| Average lifespan | 2,000 h | 40,000 h |
| Lamp replacement costs | 6.90 EUR/each | 49.99 EUR/each |
| Power connection | 0.075 kW | 0.0105 kW |
| Number of lamps needed in 12 months | 3 lamps | 1 lamp |
| Lamp purchase and replacement costs | 26.70 EUR | 51.99 EUR |
| Power consumption after 12 months | 327.6 kWh | 45.9 kWh |
| Savings after 1 year | | 28.24 EUR |
| Savings after 2 years | | 99.57 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting outlet 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

¹ All technical parameters apply to the lamp as a whole. Due to the complex manufacturing process of light emitting diodes, the specified typical values of the LED parameters merely represent purely statistical size. They do not necessarily correspond to the actual technical parameters or each individual product, which can deviate from the typical value.

² LED lamps can be operated with a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim and the associated additional technical product information sheets.

OSRAM PARATHOM PRO PAR30/38



| Product designation | No. | Product number (EAN) | W ¹ | lm ¹ | cd ¹ | K | R _a | 2 | 1 [mm] | d [mm] | |
|--------------------------------------|-----|----------------------|----------------|-----------------|-----------------|------|----------------|---|-----------|--------|----|
| OSRAM PARATHOM® PRO PAR30 | | | | | | | | | | | |
| E27 – 220–240 V – Folding carton box | | | | | | | | | | | |
| PRO PAR30 75 30° | 3 | 4008321746238 | 13 | 800 | 2600 | 3000 | 80 | — | 92 | 96 | 15 |
| OSRAM PARATHOM® PRO PAR38 | | | | | | | | | | | |
| E27 – 220–240 V – Folding carton box | | | | | | | | | | | |
| PRO PAR38 120 20° | 4 | 4008321746252 | 15 | 930 | 5000 | 3000 | 80 | — | 130 | 121 | 12 |

High-voltage LED reflector lamps PRO PAR30 with retrofit screw base E27

- Average lifespan up to 40,000 h
- Can withstand very frequent on/off switching (up to 1,000,000 switching cycles)
- High color rendering value
- High luminous efficacy
- Very good luminous intensity
- Warm light color (3000 K)
- Replacement options:
 - 75 W halogen lamp – PRO PAR30 75

Impressive figures:

After only 6 months, the replacement of a conventional halogen lamp with a PARATHOM® PRO PAR30 pays off.

| Lamp type | HALOPAR® 30 | PARATHOM® PRO PAR30 75 |
|-------------------------------------|---------------|------------------------|
| Number of lighting outlets | 1 each | 1 each |
| Lamp wattage | 75 W | 13 W |
| Average lifespan | 2,000 h | 40,000 h |
| Lamp replacement costs | 9.99 EUR/each | 49.99 EUR/each |
| Power connection | 0.075 kW | 0.013 kW |
| Number of lamps needed in 12 months | 3 lamps | 1 lamp |
| Lamp purchase and replacement costs | 35.97 EUR | 51.99 EUR |
| Power consumption after 12 months | 327.6 kWh | 56.8 kWh |
| Savings after 1 year | | 35.44 EUR |
| Savings after 2 years | | 110.87 EUR |

High-voltage LED reflector lamps PRO PAR38 with retrofit screw base E27

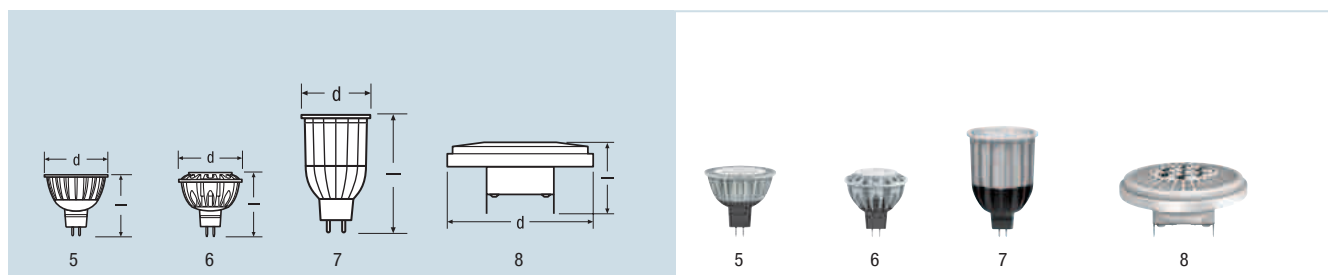
- Average lifespan up to 40,000 h
- Can withstand very frequent on/off switching (up to 1,000,000 switching cycles)
- High color rendering value
- High luminous efficacy
- Very good luminous intensity
- Warm light color (3,000 K)
- Replacement options:
 - 120 W halogen lamp – PRO PAR38 120

Impressive figures:

After only 5 months, the replacement of a conventional halogen lamp with a PARATHOM® PRO PAR38 pays off.

| Lamp type | HALOPAR® 38 | PARATHOM® PRO PAR38 120 |
|-------------------------------------|----------------|-------------------------|
| Number of lighting outlets | 1 each | 1 each |
| Lamp wattage | 120 W | 15 W |
| Average lifespan | 2,000 h | 40,000 h |
| Lamp replacement costs | 14.99 EUR/each | 54.99 EUR/each |
| Power connection | 0.12 kW | 0.015 kW |
| Number of lamps needed in 12 months | 3 lamps | 1 lamp |
| Lamp purchase and replacement costs | 50.97 EUR | 56.99 EUR |
| Power consumption after 12 months | 524.2 kWh | 65.5 kWh |
| Savings after 1 year | | 81.12 EUR |
| Savings after 2 years | | 202.24 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h



Product designation



Product
number (EAN)

W¹

lm¹

cd¹

K

R_a



l²
[mm]

d [mm]



OSRAM PARATHOM® PRO MR16

GU5.3 – 12 V – 24° – Folding carton box

| | | | | | | | | | | | |
|--------------------------|---|---------------|---|-----|------|------|----|---|----|----|----|
| PRO MR16 20 24° Advanced | 5 | 4008321973252 | 5 | 190 | 800 | 2700 | 90 | ✓ | 46 | 50 | 10 |
| PRO MR16 20 24° Advanced | 5 | 4008321973276 | 5 | 210 | 950 | 3000 | 90 | ✓ | 46 | 50 | 10 |
| PRO MR16 20 24° Advanced | 5 | 4008321973290 | 5 | 290 | 1100 | 4000 | 80 | ✓ | 46 | 50 | 10 |
| PRO MR16 35 24° Advanced | 6 | 4008321973313 | 7 | 315 | 1000 | 2700 | 85 | ✓ | 50 | 50 | 10 |
| PRO MR16 35 24° Advanced | 6 | 4008321973337 | 7 | 350 | 1100 | 3000 | 85 | ✓ | 50 | 50 | 10 |
| PRO MR16 35 24° Advanced | 6 | 4008321973351 | 7 | 430 | 1300 | 4000 | 80 | ✓ | 50 | 50 | 10 |
| PRO MR16 50 24° Advanced | 6 | 4008321991492 | 7 | 380 | 1100 | 2700 | 80 | ✓ | 50 | 50 | 10 |
| PRO MR16 50 24° Advanced | 6 | 4008321991515 | 7 | 420 | 1300 | 3000 | 80 | ✓ | 50 | 50 | 10 |

GU5.3 – 12 V – 36° – Folding carton box

| | | | | | | | | | | | |
|--------------------------|---|---------------|----|-----|------|------|----|---|----|----|----|
| PRO MR16 20 36° Advanced | 5 | 4008321972217 | 5 | 190 | 460 | 2700 | 90 | ✓ | 46 | 50 | 10 |
| PRO MR16 20 36° Advanced | 5 | 4008321972095 | 5 | 210 | 500 | 3000 | 90 | ✓ | 46 | 50 | 10 |
| PRO MR16 20 36° Advanced | 5 | 4008321972118 | 5 | 290 | 720 | 4000 | 80 | ✓ | 46 | 50 | 10 |
| PRO MR16 35 36° Advanced | 6 | 4008321972231 | 7 | 315 | 850 | 2700 | 85 | ✓ | 50 | 50 | 10 |
| PRO MR16 35 36° Advanced | 6 | 4008321972132 | 7 | 350 | 950 | 3000 | 85 | ✓ | 50 | 50 | 10 |
| PRO MR16 35 36° Advanced | 6 | 4008321972156 | 7 | 430 | 1100 | 4000 | 80 | ✓ | 50 | 50 | 10 |
| PRO MR16 50 36° Advanced | 6 | 4008321991423 | 7 | 380 | 900 | 2700 | 80 | ✓ | 50 | 50 | 10 |
| PRO MR16 50 36° Advanced | 6 | 4008321991447 | 7 | 420 | 1100 | 3000 | 80 | ✓ | 50 | 50 | 10 |
| PRO MR16 60 36° Advanced | 7 | 4008321972316 | 11 | 450 | 1100 | 2700 | 80 | ✓ | 78 | 50 | 10 |
| PRO MR16 60 36° Advanced | 7 | 4008321972170 | 11 | 500 | 1200 | 3000 | 80 | ✓ | 78 | 50 | 10 |

OSRAM PARATHOM® PRO LEDspot 111 50 24° Advanced

G53 – 12 V – 24° – Folding carton box

| | | | | | | | | | | | |
|-----------------------------|---|---------------|----|-----|------|------|----|---|------|-----|---|
| PRO LEDspot 111 50 Advanced | 8 | 4008321972392 | 12 | 500 | 3600 | 2700 | 85 | ✓ | 58.5 | 111 | 6 |
| PRO LEDspot 111 50 Advanced | 8 | 4008321972415 | 12 | 550 | 4000 | 3000 | 85 | ✓ | 58.5 | 111 | 6 |

¹ All technical parameters apply to the lamp as a whole. Due to the complex manufacturing process of light emitting diodes, the specified typical values of the LED parameters merely represent purely statistical sizes. They do not necessarily correspond to the actual technical parameters or each individual product, which can deviate from the typical value.

² LED lamps can be operated with a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim and the associated additional technical product information sheets.

Low-voltage LED reflector lamps PRO MR16 with retrofit pin base GU5.3

- Average lifespan up to 30,000 h
- Can withstand very frequent on/off switching (up to 1,000,000 switching cycles)
- High color rendering value
- High luminous efficacy
- Very precise color location
- Dimmable²
- Also available with new, even warmer light color (2,700 K)
- Replacement options:
 - 20 W halogen lamp – PRO MR16 20 Advanced
 - 35 W halogen lamp – PRO MR16 35 Advanced
 - 50 W halogen lamp – PRO MR16 50 Advanced
 - Highly efficient 50 W halogen lamp – PRO MR16 60 Advanced

Impressive figures:

After only 10 months, the replacement of a conventional halogen lamp with a PARATHOM® PRO MR16 50 pays off.

| Lamp type | DECOSTAR® MR16 50 | PARATHOM® PRO MR16 50 |
|-------------------------------------|-------------------|-----------------------|
| Number of lighting outlets | 1 each | 1 each |
| Lamp wattage | 50 W | 11 W |
| Average lifespan | 2,000 h | 30,000 h |
| Lamp replacement costs | 4.50 EUR/each | 37.95 EUR/each |
| Power connection | 0.05 kW | 0.0105 kW |
| Number of lamps needed in 12 months | 3 lamps | 1 lamp |
| Lamp purchase and replacement costs | 19.50 EUR | 39.95 EUR |
| Power consumption after 12 months | 218.4 kWh | 45.9 kWh |
| Savings after 1 year | | 12.33 EUR |
| Savings after 2 years | | 58.11 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

Low-voltage LED reflector lamps PRO111 with retrofit pin base G53

- Average lifespan up to 45,000 h
- High color rendering value
- High luminous efficacy
- Dimmable²
- Replacement options:
 - 50 W AR111 halogen lamp – LEDspot 111 50 Advanced

Impressive figures:

After only 13 months, the replacement of a conventional halogen lamp with a PARATHOM® LEDspot 111 pays off.

| Lamp type | HALOSPOT® 111 | LEDspot 111 |
|-------------------------------------|---------------|------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp wattage | 50 W | 12 W |
| Average lifespan | 2,000 h | 45,000 h |
| Lamp replacement costs | 7.00 EUR/each | 60.00 EUR/each |
| Power connection | 0.05 kW | 0.012 kW |
| Number of lamps needed in 12 months | 3 lamps | 1 lamp |
| Lamp purchase and replacement costs | 27.00 EUR | 62.00 EUR |
| Power consumption after 12 months | 218.4 kWh | 52.4 kWh |
| Savings after 1 year | | -3.45 EUR |
| Savings after 2 years | | 46.07 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

First-rate LED lamps for standard applications: OSRAM PARATHOM® CLASSIC

OSRAM PARATHOM® LED lamps are a first-rate alternative for many standard lighting situations. They are impressive due to their excellent price/performance ratio and are available in many, sometimes even dimmable variants. Thanks to standard bases and typical styles, PARATHOM® CLASSIC permit the exchange of conventional incandescent lamps with up to 75 watts.

OSRAM PARATHOM®
CLASSIC A 15



+ Efficient alternatives
for incandescent lamps
with **15 W**

OSRAM PARATHOM®
CLASSIC A 40/60/75 Advanced



+ Efficient dimmable¹
alternatives for incan-
descent lamps with
40, 60 and 75 W

OSRAM PARATHOM®
CLASSIC B 15/25



+ Efficient alternatives for incan-
descent lamps in candle shape
with **15 and 25 W**

OSRAM PARATHOM®
CLASSIC B 25 Advanced



+ Efficient dimmable¹ alternatives
for incandescent lamps in candle
shape with **25 W**



OSRAM PARATHOM®
CLASSIC P 15/25



- + Efficient alternatives for drop-shaped incandescent lamps with 15 and 25 W, E14 and E27 base

OSRAM PARATHOM®
CLASSIC P 25 Advanced



- + Efficient, dimmable¹ alternatives for drop-shaped incandescent lamps with 25 W, E14 and E27 base



OSRAM PARATHOM®
CLASSIC GLOBE 15/40













- + Efficient alternatives for incandescent lamps in globe shape with 15 and 40 W

¹ LED lamps can be operated using a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim, and the associated additional technical product information sheets.

OSRAM PARATHOM® CLASSIC A



| Product designation | |  | Product number (EAN) |  ¹ |  ¹ |  |  |  ² |  l [mm] |  d [mm] |  | |
|---|----------------------------|---|----------------------|--|--|---|---|--|---|---|---|----|
| OSRAM PARATHOM® CLASSIC A | | | | | | | | | | | | |
| E27 – 100–240 V – Folding carton box | | | | | | | | | | | | |
| CL A 15 (clear) | 1 | 4008321 | 974655 | 3 | 136 | 3000 | 70 | — | 109 | 55 | 10 | |
| CL A 15 (clear) | 1 | 4008321 | 974617 | 3 | 136 | 5500 | 70 | — | 109 | 55 | 10 | |
| OSRAM PARATHOM® CLASSIC A Surround Light Advanced ⁴ | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| E27 – 220–240 V – Surround Light – Folding carton box | | | | | | | | | | | | |
| NEW | CL A 40 Advanced (frosted) | 2 | 4052899 | 903876 | 7.5 | 470 | 2700 | 80 | ✓ | 116 | 62 | 10 |
| NEW | CL A 60 Advanced (frosted) | 3 | 4052899 | 903890 | 12 | 810 | 2700 | 80 | ✓ | 116 | 62 | 10 |
| NEW | CL A 75 Advanced (frosted) | 3 | 4052899 | 903913 | 14.5 | 1055 | 2700 | 80 | ✓ | 116 | 62 | 10 |

High-voltage LED lamps in classic bulb shape and retrofit screw base E27

- Very long average lifespan up to 30,000 h³
- Appropriate transmission angle
- Dimmable²
- Replacement options:
 - 40 W incandescent lamp – CLASSIC A 40 Advanced
 - 60 W incandescent lamp – CLASSIC A 60 Advanced
 - 75 W incandescent lamp – CLASSIC A 75 Advanced

Impressive figures:

After only 6 months, the replacement of a conventional incandescent lamp with a PARATHOM® CLASSIC A 60 Advanced pays off.

| Lamp type | INCANDESCENT LAMP CLASSIC A 60 | PARATHOM® CLASSIC A 60 Advanced |
|-------------------------------------|--------------------------------|---------------------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp output | 60 W | 12 W |
| Average lifespan | 1,000 h | 30,000 h |
| Lamp replacement costs | 2.00 EUR/each | 29.95 EUR/each |
| Power connection | 0.06 kW | 0.012 kW |
| Number of lamps needed in 12 months | 5 lamps | 1 lamp |
| Lamp purchase and replacement costs | 20.00 EUR | 31.95 EUR |
| Power consumption after 12 months | 262.1 kWh | 52.4 kWh |
| Savings after 1 year | | 27.89 EUR |
| Savings after 2 years | | 83.72 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

OSRAM PARATHOM® CLASSIC B



| Product designation | | No. | Product number (EAN) | W ¹ | lm ¹ | K | R _a | 2 | 1 [mm] | d [mm] | |
|--|---|---------------|----------------------|----------------|-----------------|----|----------------|-----|-----------|--------|--|
| OSRAM PARATHOM® CLASSIC B | | | | | | | | | | | |
| E14 – 100–240 V – Folding carton box | | | | | | | | | | | |
| CL B 15 (clear) | 5 | 4008321974815 | 2.5 | 136 | 3000 | 70 | — | 104 | 35 | 10 | |
| CL B 15 (clear) | 5 | 4008321974778 | 2.5 | 136 | 5500 | 70 | — | 104 | 35 | 10 | |
| CL B 25 (clear) | 6 | 4008321990631 | 3.5 | 250 | 2700 | 80 | — | 102 | 37 | 10 | |
| E14 – 220–240 V – Folding carton box | | | | | | | | | | | |
| NEW CL B 25 Advanced (frosted) | 7 | 4008321994035 | 4.5 | 250 | 2700 | 80 | ✓ | 109 | 35 | 10 | |
| NEW CL B 25 Advanced Sparkling (clear) ³ | 8 | 4008321979230 | 4.5 | 250 | 2700 | 80 | ✓ | 110 | 35 | 10 | |

High-voltage LED lamps in classic mini candle shape and retrofit screw base E14

- Average lifespan up to 25,000 h
- Also available in dimmable versions²
- Replacement options:
 - 25 W incandescent lamp – CLASSIC B 25 Advanced

Impressive figures:

After only 8.5 months, the replacement of a conventional incandescent lamp with a PARATHOM® CLASSIC B 25 Advanced pays off.

| Lamp type | INCANDESCENT LAMP CLASSIC B 25 | PARATHOM® CLASSIC B 25 Advanced |
|-------------------------------------|--------------------------------|---------------------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp wattage | 25 W | 4.5 W |
| Average lifespan | 1,000 h | 25,000 h |
| Lamp replacement costs | 0.79 EUR/each | 19.95 EUR/each |
| Power connection | 0.025 kW | 0.0045 kW |
| Number of lamps needed in 12 months | 5 lamps | 1 lamp |
| Lamp purchase and replacement costs | 13.95 EUR | 21.95 EUR |
| Power consumption after 12 months | 109.2 kWh | 19.7 kWh |
| Savings after 1 year | | 9.01 EUR |
| Savings after 2 years | | 37.19 EUR |

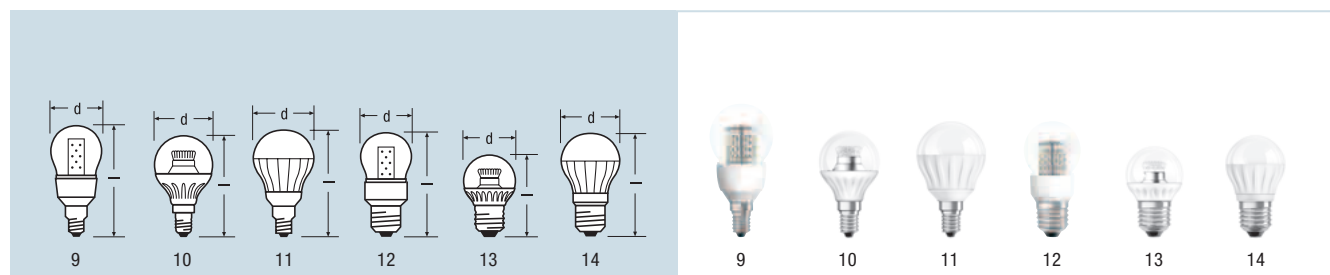
Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

¹ All technical parameters apply to the lamp as a whole. Due to the complex manufacturing process of light emitting diodes, the specified typical values of the LED parameters merely represent purely statistical sizes. They do not necessarily correspond to the actual technical parameters or each individual product, which can deviate from the typical value.

² LED lamps can be operated with a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim and the associated additional technical product information sheets.

³ Available as of 01/2013

OSRAM PARATHOM® CLASSIC P



| Product designation | | No. | Product number (EAN) | W ¹ | lm ¹ | K | R _a | 2 | 1 [mm] | d [mm] | |
|---|----------------------------|-----|----------------------|----------------|-----------------|------|----------------|---|--------|--------|----|
| OSRAM PARATHOM® CLASSIC P | | | | | | | | | | | |
| E14 – 100–240 V – Folding carton box | | | | | | | | | | | |
| | CL P 15 (clear) | 9 | 4008321974853 | 2.5 | 136 | 3000 | 70 | — | 95 | 45 | 10 |
| NEW | CL P 25 (clear) | 10 | 4008321993052 | 3.5 | 250 | 2700 | 80 | — | 78 | 45 | 10 |
| E14 – 220–240 V – Folding carton box | | | | | | | | | | | |
| | CL P 25 Advanced (frosted) | 11 | 4008321994172 | 4.5 | 250 | 2700 | 80 | ✓ | 78 | 45 | 10 |
| E27 – 100–240 V – Folding carton box | | | | | | | | | | | |
| | CL P 15 (clear) | 12 | 4008321974693 | 2.5 | 136 | 5500 | 70 | — | 90 | 45 | 10 |
| | CL P 15 (clear) | 12 | 4008321974730 | 2.5 | 136 | 3000 | 70 | — | 90 | 45 | 10 |
| NEW | CL P 25 (clear) | 13 | 4008321993069 | 3.5 | 250 | 2700 | 80 | — | 71 | 45 | 10 |
| E27 – 220–240 V – Folding carton box | | | | | | | | | | | |
| | CL P 25 Advanced (frosted) | 14 | 4008321994073 | 4.5 | 250 | 2700 | 80 | ✓ | 78 | 45 | 10 |

High-voltage LED lamps in classic drop shape and retrofit screw base E14 and E27

- Average lifespan up to 25,000 h³
- Also available in dimmable versions²
- Replacement options:
 - 15 W incandescent lamp – CLASSIC P 15
 - 25 W incandescent lamp – CLASSIC P 25

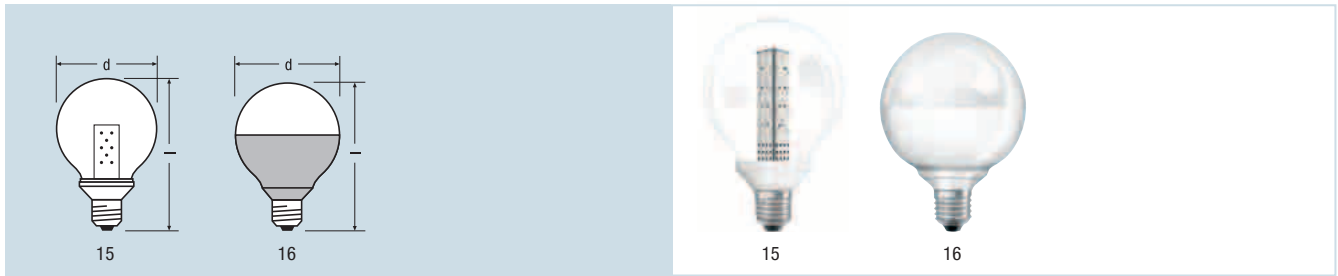
Impressive figures:

After only 8.5 months, the replacement of a conventional incandescent lamp with a PARATHOM® CLASSIC P 25 pays off.

| Lamp type | INCANDESCENT LAMP CLASSIC P 25 | PARATHOM® CLASSIC P 25 |
|-------------------------------------|--------------------------------|------------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp wattage | 25 W | 4.5 W |
| Average lifespan | 1,000 h | 25,000 h |
| Lamp replacement costs | 0.79 EUR/each | 19.95 EUR/each |
| Power connection | 0.025 kW | 0.0045 kW |
| Number of lamps needed in 12 months | 5 lamps | 1 lamp |
| Lamp purchase and replacement costs | 13.95 EUR | 21.95 EUR |
| Power consumption after 12 months | 109.2 kWh | 19.7 kWh |
| Savings after 1 year | | 9.01 EUR |
| Savings after 2 years | | 37.19 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

OSRAM PARATHOM® CLASSIC GLOBE



| Product designation | | Product number (EAN) | W ¹ | lm ¹ | K | R _a | | ² | l [mm] | d [mm] | |
|---|----|----------------------|----------------|-----------------|------|----------------|---|--------------|--------|--------|--|
| OSRAM PARATHOM® GLOBE | | | | | | | | | | | |
| E27 – 100–240 V – Folding carton box | | | | | | | | | | | |
| CL G 15 (clear) | 15 | 4008321974556 | 3 | 136 | 3000 | 70 | — | 142 | 95 | 10 | |
| E27 – 220–240 V – Folding carton box | | | | | | | | | | | |
| CL G 40 (frosted) | 16 | 4008321965387 | 10.5 | 470 | 3000 | 80 | — | 130 | 95 | 6 | |

High-voltage LED lamps in classic globe shape and retrofit screw base E27

- Average lifespan up to 25,000 h
- Replacement options:
 - 15 W incandescent lamp – CLASSIC GLOBE 15
 - 40 W incandescent lamp – CLASSIC GLOBE 40

Impressive figures:

After only 8.5 months, the replacement of a conventional incandescent lamp with a PARATHOM® CLASSIC GL 15 pays off.

| Lamp type | INCANDESCENT LAMP CLASSIC GL 15 | PARATHOM® CLASSIC GL 15 |
|-------------------------------------|---------------------------------|-------------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp output | 15W | 3W |
| Average lifespan | 1,000 h | 25,000 h |
| Lamp replacement costs | 0.79 EUR/each | 14.95 EUR/each |
| Power connection | 0.015 kW | 0.003 kW |
| Number of lamps needed in 12 months | 5 lamps | 1 lamp |
| Lamp purchase and replacement costs | 13.95 EUR | 16.95 EUR |
| Power consumption after 12 months | 65.5 kWh | 13.1 kWh |
| Savings after 1 year | | 6.96 EUR |
| Savings after 2 years | | 28.08 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

¹ All technical parameters apply to the lamp as a whole. Due to the complex manufacturing process of light emitting diodes, the specified typical values of the LED parameters merely represent purely statistical sizes. They do not necessarily correspond to the actual technical parameters or each individual product, which can deviate from the typical value.

² LED lamps can be operated with a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim and the associated additional technical product information sheets.

Excellent replacement for conventional halogen reflector lamps: OSRAM PARATHOM®

OSRAM PARATHOM® reflector lamps replace standard or halogen reflector lamps of various types of base variants and also offer excellent product characteristics.

OSRAM PARATHOM®
R50



+ Efficient alternatives for incandescent reflector lamps with 25 W and 40 W

OSRAM PARATHOM®
PAR16 20/35



+ Efficient alternatives for high-voltage halogen reflector lamps with 20 and 35 W

OSRAM PARATHOM® PAR16
35/50 Advanced



+ Efficient dimmable¹ alternatives for high-voltage halogen reflector lamps with 35 and 50 W

¹ LED lamps can be operated with a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim and the associated additional technical product information sheets.

OSRAM PARATHOM®
MR11 20



OSRAM PARATHOM®
MR16 20 Advanced








+ Efficient alternatives for
low-voltage halogen
reflector lamps with 20W

+ Efficient dimmable¹
alternatives for low-
voltage halogen reflector
lamps with 20W



OSRAM PARATHOM® R50



| Product designation |  No. | Product number (EAN) | W ¹ | lm ¹ | cd ¹ | K | R _a |  ° |  [mm] |  d [mm] |  |
|---|---|----------------------|----------------|-----------------|-----------------|------|----------------|---|--|--|---|
| OSRAM PARATHOM® R50 | | | | | | | | | | | |
| E14 – 220–240 V – 30° – Folding carton box | | | | | | | | | | | |
| R50 25 30° | 1 | 4008321965448 | 3 | 100 | 250 | 3000 | 80 | — | 85 | 50 | 10 |
| R50 25 30° | 1 | 4008321965400 | 3 | 140 | 350 | 6500 | 70 | — | 85 | 50 | 10 |
| R50 40 30° | 2 | 4052899904781 | 4.2 | 190 | 540 | 2700 | 80 | — | 85 | 50 | 10 |
| E27 – 220–240 V – 30° – Folding carton box | | | | | | | | | | | |
| R50 25 30° | 3 | 4008321965486 | 3 | 140 | 350 | 6500 | 70 | — | 83 | 50 | 10 |

High-voltage LED reflector lamps R50 with retrofit screw base E14 and E27

- Average lifespan up to 25,000 h³
- Replacement options:
 - 25 W Spot-incandescent lamp – R50 25
 - 40 W Spot-incandescent lamp – R50 40

Impressive figures:











After only about 3.5 months, the replacement of a conventional incandescent lamp with a PARATHOM® R50 40 pays off.

| Lamp type | CONCENTRA SPOT R50 | PARATHOM® R50 40 |
|-------------------------------------|--------------------|------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp wattage | 40 W | 4.2 W |
| Average lifespan | 1,000 h | 25,000 h |
| Lamp replacement costs | 2.00 EUR/each | 14.95 EUR/each |
| Power connection | 0.04 kW | 0.0042 kW |
| Number of lamps needed in 12 months | 5 lamps | 1 lamp |
| Lamp purchase and replacement costs | 20.00 EUR | 16.95 EUR |
| Power consumption after 12 months | 174.7 kWh | 18.3 kWh |
| Savings after 1 year | | 32.76 EUR |
| Savings after 2 years | | 78.47 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

OSRAM PARATHOM® PAR16



| Product designation | |  | Product number (EAN) |  ¹ |  ¹ |  ¹ |  |  |  ² |  [mm] |  d [mm] |  |
|---|---|---|----------------------|--|--|--|---|---|--|---|---|---|
| OSRAM PARATHOM® PAR16 | | | | | | | | | | | | |
| E27 – 220–240 V – 35° – Folding carton box | | | | | | | | | | | | |
| PAR16 20 35° | 3 | 4008321 | 965769 | 4.5 | 170 | 450 | 3000 | 80 | — | 68 | 50 | 10 |
| PAR16 20 35° | 3 | 4008321 | 965721 | 4.5 | 230 | 600 | 6500 | 70 | — | 68 | 50 | 10 |
| GU10 – 220–240 V – 35° – Folding carton box | | | | | | | | | | | | |
| PAR16 20 35° | 4 | 4008321 | 973108 | 5 | 170 | 450 | 2800 | 80 | — | 57 | 50 | 10 |
| PAR16 20 35° | 4 | 4008321 | 980502 | 5 | 170 | 450 | 3000 | 80 | — | 57 | 50 | 10 |
| PAR16 20 35° | 4 | 4008321 | 973634 | 5 | 230 | 600 | 4000 | 75 | — | 57 | 50 | 10 |
| PAR16 35 35° | 4 | 4008321 | 973061 | 5 | 200 | 600 | 2800 | 80 | — | 57 | 50 | 10 |
| PAR16 35 35° Advanced | 5 | 4008321 | 975379 | 5.5 | 200 | 600 | 3000 | 80 | ✓ | 58 | 50 | 10 |
| NEW PAR16 35 35° Advanced | 6 | 4008321 | 991287 | 5 | 220 | 600 | 2700 | 80 | ✓ | 58 | 50 | 10 |
| NEW PAR16 35 35° Advanced | 6 | 4008321 | 991300 | 5 | 220 | 600 | 4000 | 80 | ✓ | 58 | 50 | 10 |
| NEW PAR16 50 35° Advanced | 6 | 4008321 | 991324 | 7 | 350 | 950 | 2700 | 80 | ✓ | 58 | 50 | 10 |
| NEW PAR16 50 35° Advanced | 6 | 4008321 | 991348 | 7 | 350 | 950 | 4000 | 80 | ✓ | 58 | 50 | 10 |

High-voltage LED reflector lamps PAR16 with retrofit pin base GU10

- Average lifespan up to 25,000 h
- Also available in dimmable versions²
- Ideal for the exchange of existing halogen spots
- Beam angle of 35°
- Replacement options:
 - 20 W halogen lamp – PAR16 20
 - 35 W halogen lamp – PAR16 35, PAR16 35 Advanced
 - 50 W halogen lamp – PAR16 50 Advanced

Impressive figures:

After only 6 months, the replacement of a conventional halogen lamp with a conventional halogen lamp with a PARATHOM® PAR16 50 pays off.

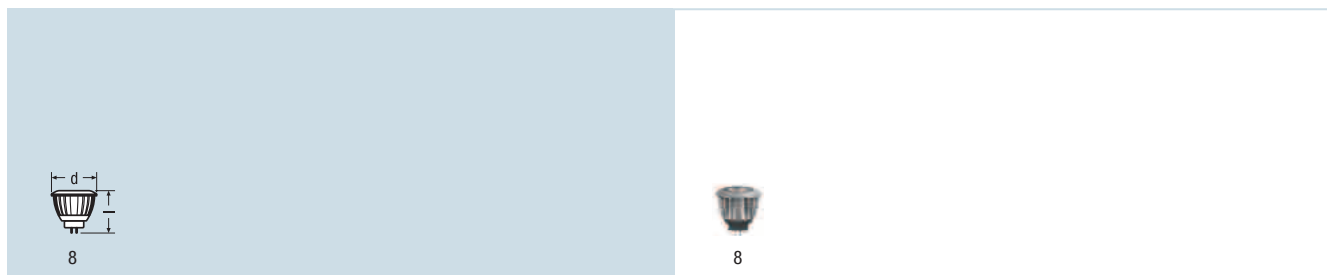
| Lamp type | HALOPAR® 16 50 | PARATHOM® PAR16 50 Advanced |
|-------------------------------------|-------------------|-----------------------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp wattage | 50 W | 7 W |
| Average lifespan | 2,000 h | 25,000 h |
| Lamp replacement costs | 3.50 EUR/each | 24.45 EUR/each |
| Power connection | 0.05 kW | 0.007 kW |
| Number of lamps needed in 12 months | 3 lamps | 1 lamp |
| Lamp purchase and replacement costs | 16.50 EUR | 29.95 EUR |
| Power consumption after 12 months | 218.4 kWh | 30.6 kWh |
| Savings after 1 year | | 22.00 EUR |
| Savings after 2 years | | 68.00 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4 368 h

¹ All technical parameters apply to the lamp as a whole. Due to the complex manufacturing process of light emitting diodes, the specified typical values of the LED parameters merely represent purely statistical sizes. They do not necessarily correspond to the actual technical parameters or each individual product, which can deviate from the typical value.

² LED lamps can be operated with a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim and the associated additional technical product information sheets.

OSRAM PARATHOM® MR11



| Product designation | No. | Product number (EAN) | W ¹ | lm ¹ | cd ¹ | K | R _a | 2 | 1 [mm] | d [mm] | |
|---|-----|----------------------|----------------|-----------------|-----------------|------|----------------|---|-----------|--------|----|
| OSRAM PARATHOM® MR11 | | | | | | | | | | | |
| GU4 – 12V – 24° – Folding carton box | | | | | | | | | | | |
| MR11 20 24° | 8 | 4008321975553 | 3 | 120 | 700 | 3000 | 80 | — | 40 | 35 | 10 |

Low-voltage LED reflector lamps MR11 with retrofit pin base GU4

- Average lifespan up to 25,000 h³
- Low-voltage operation on CCG and ECG⁴
- Ideal for replacing existing low-voltage halogen reflector lamps
- Replacement options:
 - 20 W halogen lamp – MR11 20

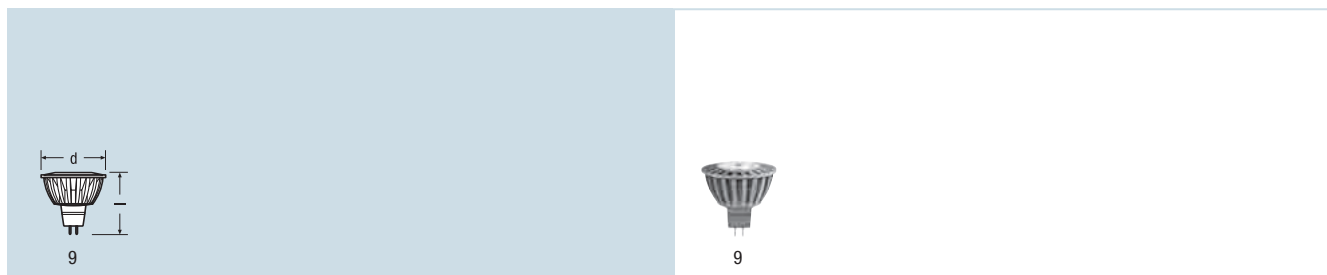
Impressive figures:











After only 10.5 months, the replacement of a conventional halogen lamp with a conventional halogen lamp with a PARATHOM® MR11 20 pays off.

| Lamp type | DECOSTAR® 20W | PARATHOM® MR11 20 |
|-------------------------------------|------------------|----------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp wattage | 20W | 3W |
| Average lifespan | 2,000 h | 25,000 h |
| Lamp replacement costs | 1.95 EUR/each | 19.95 EUR/each |
| Power connection | 0.02 kW | 0.003 kW |
| Number of lamps needed in 12 months | 3 lamps | 1 lamp |
| Lamp purchase and replacement costs | 11.85 EUR | 21.95 EUR |
| Power consumption after 12 months | 87.4 kWh | 13.1 kWh |
| Savings after 1 year | | 4.01 EUR |
| Savings after 2 years | | 26.02 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

OSRAM PARATHOM® MR16



| Product designation |  No. | Product number (EAN) |  W ¹ |  lm ¹ |  cd ¹ |  K |  Ra |  ° ² |  I [mm] |  d [mm] |  |
|---|---|-----------------------|--|---|---|---|--|--|--|--|---|
| OSRAM PARATHOM® MR16 | | | | | | | | | | | |
| GU5.3 – 12 V – 36° – Folding carton box | | | | | | | | | | | |
| MR16 20 36° Advanced | 9 | 4008321 682574 | 5 | 210 | 550 | 3000 | 80 | ✓ | 48 | 50 | 10 |
| MR16 20 36° Advanced | 9 | 4008321 682611 | 5 | 190 | 490 | 2800 | 80 | ✓ | 48 | 50 | 10 |

Low-voltage LED reflector lamps MR16 with retrofit pin base GU5.3

- Average lifespan up to 25,000 h
- Dimmable²
- Low-voltage operation on CCG and ECG³
- Ideal for replacing existing low-voltage halogen reflector lamps
- Replacement options:
 - 20 W halogen lamp – MR16 20 Advanced

Impressive figures:

After only 11 months, the replacement of a conventional halogen lamp with a conventional halogen lamp with a PARATHOM® MR16 20 pays off.

| Lamp type | DECOSTAR® MR16 20 | PARATHOM® MR16 20 |
|-------------------------------------|-------------------|-------------------|
| Number of lighting points | 1 each | 1 each |
| Lamp wattage | 20 W | 5 W |
| Average lifespan | 2,000 h | 30,000 h |
| Lamp replacement costs | 1.99 EUR/each | 19.95 EUR/each |
| Power connection | 0.02 kW | 0.005 kW |
| Number of lamps needed in 12 months | 3 lamps | 1 lamp |
| Lamp purchase and replacement costs | 11.97 EUR | 21.95 EUR |
| Power consumption after 12 months | 87.4 kWh | 21.8 kWh |
| Savings after 1 year | | 2.47 EUR |
| Savings after 2 years | | 22.90 EUR |

Basis: Electricity costs EUR 0.19/kWh, lamp costs = RRP (European average), replacement costs/lighting point 2.00 EUR (0.05 h at 40 EUR/h), operating time per day/year: 12 h/4368 h

¹ All technical parameters apply to the lamp as a whole. Due to the complex manufacturing process of light emitting diodes, the specified typical values of the LED parameters merely represent purely statistical sizes. They do not necessarily correspond to the actual technical parameters of each individual product, which can deviate from the typical value.

² LED lamps can be operated with a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim and the associated additional technical product information sheets.

³ For further information, please refer to Page 27 "ECG compatibility" and www.osram.com/low-voltage-ledlamps

Special LED lamps for special purposes: OSRAM PARATHOM® SPECIAL



LED technology, with its wide range of product benefits, is extremely well suited to special fields of applications and special tasks. With PARATHOM® SPECIAL T26, PARATHOM® LED PIN G4 as well as LEDinestra®, OSRAM offers three economical special LED lamps for professional use.

OSRAM PARATHOM®
SPECIAL T26



- + Excellent for use in refrigerators or sewing machines

OSRAM PARATHOM®
LED PIN G4

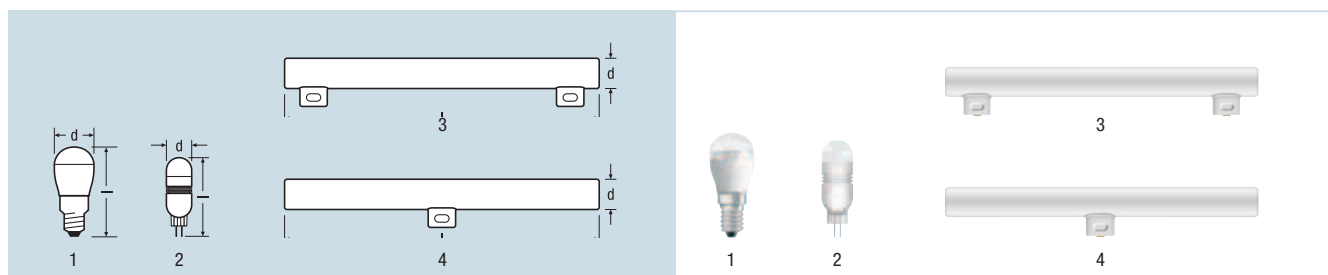











- + Ideal for “starry sky” applications

OSRAM LEDinestra®



- + Ideal exchange of conventional tubular incandescent lamps



| Product designation | |  | Product number (EAN) |  ¹ |  ¹ |  |  |  ² |  l [mm] |  d [mm] |  | |
|---------------------------------------|---|---|----------------------|--|--|---|---|--|---|---|---|--|
| OSRAM PARATHOM® SPECIAL T26 | | | | | | | | | | | | |
| E14 – 220–240 V – Folding carton box | | | | | | | | | | | | |
| SPECIAL T26 15 | 1 | 4008321965004 | 0.8 | 65 | 5500 | 70 | — | 61 | 26 | 20 | | |
| SPECIAL T26 15 | 1 | 4008321973719 | 0.8 | 65 | 3000 | 75 | — | 61 | 26 | 20 | | |
| OSRAM PARATHOM® SPECIAL PIN G4 | | | | | | | | | | | | |
| G4 – 12 V – Folding carton box | | | | | | | | | | | | |
| PIN G4 | 2 | 4008321977281 | 1.5 | 80 | 3000 | 75 | — | 56 | 18 | 20 | | |
| OSRAM LEDinestra® | | | | | | | | | | | | |
| S14s – 220–240 V – Folding carton box | | | | | | | | | | | | |
| LEDinestra 6W S14s | 3 | 4008321975317 | 6 | 250 | 2700 | 88 | — | 300 | 30 | 5 | | |
| S14d – 220–240 V – Folding carton box | | | | | | | | | | | | |
| LEDinestra 6W S14d | 4 | 4008321975331 | 6 | 250 | 2700 | 88 | — | 300 | 30 | 5 | | |

High-voltage LED special lamps with retrofit screw base E14

- Average lifespan up to 10,000 h
- Suitable for indoor and outdoor application
- Robust and extremely small size
- Daylight light color suitable for applications in refrigeration units

High-voltage LED special lamps in rod shape with retrofit pin base S14s and S14d

- Average lifespan up to 12,000 h
- Ideal exchange of conventional tube-shaped lamps (incandescent lamps)

Low-voltage LED special lamp with retrofit pin base G4

- Average lifespan up to 15,000 h
- For operation in open lamps
- Replacement for decorative halogen light sources with G4-base³

¹ All technical parameters apply to the lamp as a whole. Due to the complex manufacturing process of light emitting diodes, the specified typical values of the LED parameters merely represent purely statistical sizes. They do not necessarily correspond to the actual technical parameters or each individual product, which can deviate from the typical value.

² LED lamps can be operated with a wide variety of dimmers available on the market; the details and results of compatibility tests can be seen using www.osram.com/dim and the associated additional technical product information sheets.

³ Dimensions vary differently from halogen lamps

For an easy 1:1 exchange.

PARATHOM® and PARATHOM® PRO low-voltage lamps are suitable for operation on OSRAM HALOTRONIC® and OSRAM OPTOTRONIC® ECG. This means that PARATHOM® and PARATHOM® PRO low-voltage lamps can replace conventional low halogen lamps in existing systems – simply by exchanging.



HALOTRONIC MOUSE® 105



HALOTRONIC MOUSE® 70

| PARATHOM®/PARATHOM® PRO | Conventional electrical ballasts 12V AC | Electronic control gear 12V AC OSRAM HALOTRONIC® | LED control gear OSRAM OPTOTRONIC® |
|-------------------------|--|---|---------------------------------------|
| MR11 | • | • | • |
| MR16 | • | • | • |
| LEDspot111 | • | • | • |
| SPECIAL PIN G4 | • | • | • |

Since HALOTRONIC MOUSE® units were developed for halogen lamps, their output factor can change when they are used with PARATHOM® LED lamps.

The table shows a summary and does not provide a valid statement for each individual product. For detailed information about the individual products and their compatibility and dimming facility please visit www.osram.com/low-voltage-ledlamps. Here you will find detailed technical information about the individual products in this area.

OSRAM GmbH

Head Office

Hellabrunner Strasse 1

81543 Munich

Germany

Phone +49 (0)89-6213-0

Fax +49 (0)89-6213-20 20

www.osram.com

